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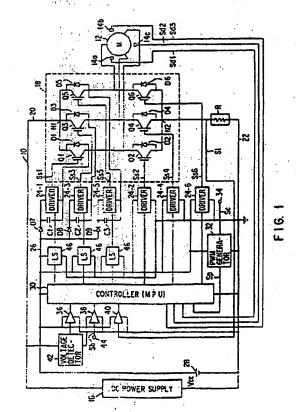
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Power converting device with inverter circuitry for driving multiple-phase variable-speed motor.

A power conversion device (10) of the inverter type for three-phase DC motor (12) includes three parallel pairs of output transistors (Q1 to Q6) between a power supply voltage (20) and the ground potential (22). These pairs provide three upper-stage transistors (Q1, Q3, Q5) and three lower-stage transistors (Q2, Q4, Q6) with diodes (D1 to D6) being coupled thereto. Drivers (24) are connected to the transistors (Q) respectively. A capacitor (C1) for each upperstage driver (24-1) has an electrode coupled to the power supply voltage and the other elec-trode coupled to the ground through a corresponding lower-stage transistor (Q2). controller (30) controls the upper- and lowerstage drivers (24) in response to a pulse width modulation (PWM) signal (Sp) generated by a PWM generator (32) to represent a desired motor rotation speed. The upper-stage transistors (Q1, Q3, Q5) are PWM-driven so that each one turns on and off repeatedly during a 120degree electrical angle period. While one upper-stage transistor (Q1) is PWM-driven during a 120-degree period, a corresponding lowerstage transistor (Q2) turns on in response to a reverse-phased pulse at the beginning of this period, thereby charging the capacitor (C1).



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EUROPEAN SEARCH REPORT

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EP 92 30 6080

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